

Fortiflex[®] PE

CBNSF
8.7.2.56.2 V1

K44-24-123

FORTIFLEX K44-24-123 is a black high density polyethylene copolymer designed specifically for pipe extrusion. It has NSF approval for potable water applications and is recognized by the Plastics Pipe Institute as having a PE3408 rating. The natural version of this resin is available as FORTIFLEX K44-24-122.

Property	ASTM Test Method	Typical Values	
		English Units	SI Units
Density (Natural)	D 1505	—	0.944 g/cc
Density (Black)	D 1505	—	0.955 g/cc
Melt Index ¹	D 1238	—	0.32 g/10 min
Tensile Strength			
@ Yield (2 in/min)	D 638	3300 psi	22.8 MPa
@ Break (2 in/min)	D 638	4500 psi	31.0 MPa
Elongation			
@ Break (2 in/min)	D 638	>800%	>800%
Flexural Modulus ²	D 790	135,000 psi	931 MPa
Notched Izod Impact Strength	D 256	10.0 ft-lbf/in	0.53 kJ/m
Hardness (Shore D)	D 2240	68	68
Vicat Softening Point	D 1525	262°F	128°C
Brittleness Temperature	D 746	<-103°F	<-75°C
Hydrostatic Design Basis			
@ 23°C	D 2837	1600 psi	11.0 MPa
@ 60°C	D 2837	630 psi	4.3 MPa
Environmental Stress			
Crack Resistance ³	D 1693	>5000 hrs.	>5000 hrs.
Carbon Black			
Concentration	D 1603	2.5%	2.5%
Cell Classification	D 3350	335434C	335434C

(2/1/86)

¹ 190°C/2160 g

² Tangent-Method 1

³ Condition C

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